

## Missouri Department of Natural Resources Operator Certification Section

# Water & Wastewater Digest

Vol. 31, No. 1

Summer 2006

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# NEW!

## E-mail for Operators

The Missouri Department of Natural Resources' Operator Certification Section would like to announce a new broadcast e-mail service especially for operators. Sign up to receive important information by e-mail. Some possibilities could include:

- Water and Wastewater Digest releases
- job announcements
- class cancellations due to weather or low pre-registration
- other news and reminders for things like the Consumer Confidence Report

Sign up today at:

<http://www.dnr.mo.gov/env/wpp/opcert/opmail-list.htm> or complete and send in the form on the back page.

## Save Money; Use Drinking Water Vouchers

Have you ever wanted to attend training, but were told it wasn't in the budget?

You may have funds available through the drinking water voucher program. More than 1,500 eligible drinking water systems received up to \$1,875 worth of drinking water vouchers in 2004 from the Missouri Department of Natural Resources. They can be used to pay for drinking water training and certification fees. Vouchers were issued to drinking water systems, not individuals. This allows the system the flexibility in deciding who should use them, including existing operators, person(s) interested in becoming backup operators, and even contract operators. There is still time to put vouchers to use.

The following frequently asked questions and answers are intended to explain who received vouchers, their benefits, and how to request re-issuance of lost vouchers.

### *What can I use vouchers for?*

- Classroom style training: Use your vouchers to pay for voucher-approved drinking water courses. View department-approved training courses at the back of this publication or visit <http://www.dnr.mo.gov/env/wpp/opcert/optrain.htm>. Please note that the list indicates which courses are currently accepting vouchers for payment.
- Correspondence and on-line training: Request reimbursement from the department once the course is successfully completed. It is recommended that you contact the Operator Certification Section at 1-800-361-4827 prior to enrolling in a correspondence course or on-line course to confirm that it will be eligible for reimbursement.
- Renewal fees, exam and certification fees for drinking water certificates: Pay for renewal of your existing drinking water certificate.

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(Continued on page 2...)

Save Money- (Continued from page 1)

Use them to pay for exam fees if you want to become certified at a higher level. Take advantage of vouchers to train and certify one or more interested persons as backup operators.

***Did my drinking water system receive vouchers?***

Public drinking water systems must be either a community or a non-transient non-community system and serve 3,300 people or less to be eligible to participate in the voucher program. More than 1,500 systems received vouchers. Eligible water systems classified as distribution systems received \$1,275 worth of vouchers. Eligible water systems classified as treatment received \$1,875 worth. Eligible systems with both distribution and treatment classifications, received \$1,875. Visit <http://www.dnr.mo.gov/env/wpp/opcert/opr-vouchers.htm> to see a list of systems that have received vouchers.

***Do vouchers expire?***

Vouchers will expire Dec. 31, 2007.

***What happens if we don't use our vouchers?***

Unused voucher money will not be provided or returned to water systems. When the vouchers expire, the department will evaluate the success of the voucher program and make decisions on how to further implement the grant.

***Can we use vouchers for wastewater training, wastewater exams and certification fees?***

No, the grant money is a result of amendments to the federal Safe Drinking Water Act. The intent of the grant is to provide assistance for drinking water examinations, certifications and training only, not wastewater.

***What do vouchers look like?***

The original mailing would have been sent in a large manila envelope with 20 – 25 voucher forms inside. The legal sized forms are white paper with red printing. Also enclosed were sheets of labels with dollar amounts, system identification, and expiration dates printed on them.

***What if we can't find our vouchers?***

The vouchers were mailed to the financial or administrative contact

or the owner of the drinking water system. Check with them to see if they know where the vouchers are. If the vouchers can't be found, the department can re-issue unused voucher funds.

***How does a system request re-issuance of unused voucher funds?***

To request re-issuance of unused voucher funds, an authorized system representative (board member, mayor, owner, etc.) must submit a letter to Darlene Helmig at the Missouri Department of Natural Resources, Operator Certification Section, P.O. Box 176, Jefferson City, MO 65102-0176. Include the following information in the letter:

- Public Water Supply Name and ID number
- Reason for the re-issuance request (vouchers were lost, never received, accidentally destroyed, etc.).
- Name and address to mail the re-issued vouchers to
- Signature of an authorized representative

I encourage you to look into the voucher program and how it can benefit you. If you have questions please contact Darlene Helmig at the department's Operator Certification Section at 1-800-361-4827 or (573) 522-6103.

**Reminder: CCR Reports Due**

The Public Drinking Water Branch mailed Consumer Confidence Reports (CCRs) to all of Missouri's community public water systems the middle of May. **CCRS must be distributed to your customers no later than July 1, 2006.** If you need assistance with your CCR, please call Lisa Cook at 1-800-361-4827 or (573) 526-3832.

**Training List Available On-Line**

The list of approved training changes frequently as new courses are reviewed and approved by department staff. By the time this publication reaches you, there may be new courses available in your area. Visit us at <http://www.dnr.mo.gov/env/wpp/opcert/oprtrain.htm> to view an up-to-date list of operator certification courses.

## Congratulations! New Certificates

Congratulations go out to the following individuals in achieving new certificates issued from January through April of 2006.

### CAFO

James M. Brown	A (WET)
Walter C Durryea	A (WET)
Marcus E. Illg	A (WET)
Barry D Midtling	A (WET)
David W Nance	A (WET)
Tim J Oberbeck	A (WET)
Gwendolyn E. Peterie	A (WET)
Robert E. Reed	A (WET)
Randall A. Smith	A (WET)
Michael R. Whitmire	A (WET)
Sam A. Wilty	A (WET)
Justin L. Anders	B (WET)
Gordon W. Comer	B (WET)
David D. DeMoss	B (WET)
Derek T. Ellis	B (WET)
Justin K. Green	B (WET)
Patrick A. Grill	B (WET)
James M. Harlan	B (WET)
Cory N. Holerud	B (WET)
William C. Johnson	B (WET)
Dustin J. Kragness	B (WET)
John K. Myers	B (WET)
Gene R. Pace	B (WET)
Edward L. Poe	B (WET)
David C Russell	B (WET)
Joshua D. Smith	B (WET)

### Drinking Water Distribution

Karen S Beyer	I
Geraldine A. Blakey	I
Donald L Blehm	I
Brian D Byrd	I
Stephen S. Collier	I
Troy L. Copeland	I
David R Cragen	I
Robert E Crapenhof	I
Scott A Dudolski	I
Charles L Hartman	I
Michael D. Henady	I
James C. Lowe	I
Gary W McClaskey	I
Wally D. Miller	I
Norman A. Murray	I
Shannon M. Nichols	I
Victoria J. Norman	I
Millie R Powell	I
Barton J Reese	I
Joseph W Sloss	I
Robert D. Sullivan	A
Barbara J. Woods	A

Jerry W. Williams	I
Phillip L. Williams	I
Amber R. Yarnevich	I
Blane A. Adams	II
Jamie J. Austin	II
Brian E. Bachtel	II
David R. Ballard	II
Rondal D. Bandy	II
Stephen J Besermin	II
Brian R Bowman	II
Ken C Boyer	II
Ronald L. Bray	II
Todd W Burton	II
Marty H. Buscher	II
Shannon D. Campbell	II
Tony R Cantrell	II
Roger E. Carr	II
James A. Chaligoj	II
Donald J Chulufas	II
Michael R. Collins	II
Lawrence G. Cooper	II
Dean A. Corner	II
Darrell G Cunningham	II
Gary L. Cunningham	II
Mark A. Deluca	II
Tyrone Derish	II
Gary L. Dixon	II
Robert J Dollins	II
Gerald E Elliott	II
Jason B. Eudaley	II
Dave Felder	II
John Fraga	II
James G Goodknight	II
Stephen A Graver	II
Matthew B Guccione	II
Tom G. Hare	II
John O. Harmon	II
Robert P. Hatley	II
George D. Heisten	II
William E. Hendricks	II
Billie J. Hettinger	II
Bobby R Hogue	II
Ricky C. House	II
Larry G. Hughey	II
Russell M Hydorn	II
Timothy W Ince	II
Deryl Krutz	II
Scott A. Lang	II
Randy L. Lawson	II
John D Mabrey	II
Kory G. Martinson	II
David J. Maxwell	II
James N. May	II
John C. McAlister	II
Ryan E. Miller	II
Scott A Morgan	II
Troy A. Neese	II
Robert M. Norris	II
Michael W. Petersen	II
Christopher A. Pickering	II
Rick M. Pickren	II
Ronald W. Reed	II
Barbara J. Woods	A
Morris L Jefferies	B

James E Reynolds	II
Bryan S Rice	II
Rodney K Robinson	II
Charles A. Roop	II
Fred B Ryder	II
Edwin L. Sherwood	II
George A Silvey	II
Jack A. Sprague	II
Lloyd L. Stilts	II
Kent A. Thomas	II
Jason R Thornsberry	II
David A. Wagoner	II
Kathy E. Weiss	II
Charles E. Whitehead	II
Richard C. Wing	II
Roy E. Yokley	II
Charles L. Youngblood	II
Jamie J. Austin	III
Jesse M. Balman	III
Brian C Barnes	III
Travis W. Boss	III
Donald W. Brown	III
Robert E Burns	III
Chris P Campbell	III
Dannie R. Coons	III
Danny L. Cooper	III
Kevin D. Crane	III
Steven R. Gordon	III
Roger R Harston	III
Archie D. Hendren	III
Terry L. King	III
Dusty L Koll	III
Sean D. Lantz	III
Delvin R Meyer	III
Larry D. Muse	III
Jon J. Parris	III
Grant R Piper	III
Charles A. Roop	III
Clifford L. Roschevitz	III
Kimberly A Rupard	III
Lisa A Schreiber	III
James K Sherry	III
Jeremy L. Slawson	III
Gregory L Smith	III
Gerald D Snelling	III
Jess W Snyder	III
Robert R. Taylor	III
Kalman L. Turos	III
Cranston D. VanBuren	III
James L. Walton	III
Lee R. Wernowsky	III
Jason L Wiseman	III
Victor P. Wolf	III
James B. Woods	III

### Drinking Water Treatment

Danny J. Bundren	A
Chad C. Gray	A
James E. Ianke	A
Joseph B. Pieron	A
Julia A. Mahurin	B
Rod A. Rueter	B

(continued on page 4...)

Newly Issued Certificates (continued  
from Page 3)

### Drinking Water Treatment (continued)

Randall C. Adams	C
Randall W. Baugher	C
Ronald C. Blackburn	C
Steven M. Boss	C
Ronald D. Bratten	C
Michael R. Breer	C
Jon T. Brown	C
Robert W. Bryant	C
LaTrisha A. Crist	C
Gary L. Cunningham	C
Anthony D. Dahl	C
Troy E. Geoghegan	C
Stephen A. Graver	C
Lenesse R. Greer	C
William C. Haddock	C
Kevin D. Hallowell	C
John O. Harmon	C
Paul E. Lashley	C
Wayne P. Lawrence	C
Charles D. Lindberg	C
Jeff D. McCartney	C
Joshua J. Mundy	C
Kerry R. Peterie	C
Kenneth W. Snider	C
Jason K. Stutesman	C
Penny J. Williams	C
Casey J. Agne	D
Nicholas D. Amidon	D
Richard L. Barker	D
David A. Bestgew	D
Paula T. Bevirt	D
Kendall D. Brady	D
Joseph E. Brzuchowski	D
Randy D. Case	D
Lillian D. Caswell	D
Doug H. Counts	D
Jason M. Crocker	D
Gary L. Dixon	D
Scott A. Dudolski	D
Timothy E. Fain	D
Todd W. Field	D
Rondal L. Fisher	D
Sheryl L. Gillmore	D
Tim D. Graves	D
Robert P. Hatley	D
Scott L. Hedgcorth	D
Eric J. Hemker	D
Russell M. Hydorn	D
Ricardo L. Johnson	D
William C. Jones	D
Deborah G. Kilcoyne	D
John Kovacs	D
Jessie L. Legate	D
James C. Lowe	D
Alan S. Mahan	D
Keith A. Wehmeyer	D
Kathy E. Weiss	D
Tim D. Wessel	D

Eli A. McDonald	D
Neil A. McHatton	D
Wanda C. Pering	D
Larry P. Pflum	D
Brandon R. Potthast	D
Donald M. Powell	D
Keet A. Reed	D
Snowlyne D. Renn	D
Paul W. Robertson	D
Tom R. Rohrscheib	D
John L. Rucker	D
Johnny L. Russell	D
Nathan W. Stevens	D
Jim N. Thompson	D
Noble R. Thompson	D
Michael C. Wood	D
Ashley N. Woodside	D

### Wastewater

Brad R. Brumit	A
George T. Burkhart	A
David L. Clemmons	A
Eddie C. Cockrum	A
Gary L. Cunningham	A
Russell A. Gerling	A
Brian J. Hayes	A
Scott A. Heatherly	A
Tim W. Hill	A
Jerry A. Jackson	A
Leonard E. Johnson	A
Michael D. Quirk	A
Theodore J. Schade	A
Samuel C. Schmidt	A
Robert J. Eaton	B
Marvin E. Fox	B
Brian J. Hayes	B
Carl J. Mandina	B
Michael A. Plemmons	B
Justin S. Reaves	B
David R. Rollins	B
Marsha R. Williams	B
Todd C. Wood	B
Bryan L. Armstrong	C
Joseph A. Baltz	C
Steven M. Boss	C
Jeff W. Bowden	C
Billy R. Colliver	C
Perry N. Courtney	C
Donald S. Daniels	C
John Fraga	C
Stephen A. Graver	C
Philip M. Greenwood	C
Mark E. Henderson	C
Larry G. Hughey	C
Douglas L. Kelley	C
Chad A. Krummel	C
Billy W. Lunn	C
Gary L. Mallett	C
Stanley A. Nichols	C
Lindbergh Oxner	C
Michael E. Williams	D
Ashley N. Woodside	D
L. Darrell Xander	D

Rodney D. Puckett	C
Larry D. Ramage	C
Justin S. Reaves	C
Lee R. Roberts	C
Paul D. Roe	C
Terry W. Smalley	C
Robert W. Sopko	C
William J. Stegman	C
Mark D. Swearngin	C
Steven L. Tiefenbrunn	C
Joseph C. Waddell	C
Dan C. Watkins	C
Brandon R.G. Weber	C
Kevin P. Wiggins	C
Margaret M. Wilson	C
Claude R. Wilson	C
David S. Adams	D
Dennis J. Ahmann	D
Bradly D. Allen	D
Nicholas D. Amidon	D
Rick R. Arnzen	D
Thomas J. Ash	D
Christopher S. Baker	D
Richard L. Barker	D
Blake A. Boxley	D
Kendall D. Brady	D
Jamey L. Brand	D
Gary L. Brandeberry	D
Robert V. Bruce	D
Richard S. Byers	D
Lillian D. Caswell	D
Jacqueline De La Cruz	D
Forest S. Decker	D
Ronald C. Emberton	D
Rex W. Franke	D
James A. Guthrie	D
Donald K. Hamilton	D
Eric J. Hemker	D
William E. Hendricks	D
Heather M. Hunt	D
Christopher W. Hyatt	D
Roy A. Jackson	D
Ricardo L. Johnson	D
Tim N. Kelly	D
Jeff D. McCartney	D
Bethany J. McDonald	D
Douglas A. McFarland	D
Neil A. McHatton	D
Kurt D. Meighen	D
Jeffrey A. Nieroda	D
Gene R. Pace	D
Brandon R. Potthast	D
Joseph E. Riefesel	D
Paul W. Robertson	D
Tom R. Rohrscheib	D
Johnny L. Russell	D
Rex A. Smiley	D
Angela M. Swan	D
Noble R. Thompson	D
Rafael A. Vidal	D

**Total New Certificates 349**

## RCAP's Small System Security Toolbox

Reprinted from the "ASDWA Weekly Update," March 31, 2006

If you have an interest in either small systems or security you may want to check out RCAP's (Rural Community Assistance Partnership) new "security toolbox" that is posted on their website at <http://www.rcap.org>.

The no cost "toolbox" contains several useful tools targeted to small system security needs. In addition to VA and ERP templates, the toolbox provides step by step "how to" instruction guides. Further, the toolbox holds information that makes clear, common sense connections between small system capacity development issues (asset management for example) and good small system security actions. Appropriate tools are also included for small wastewater systems. Finally, the toolbox contains several useful Powerpoint presentations that help reinforce the need for small system security and emergency preparedness.

## Long Term 2 Enhanced Surface Water Treatment Rule

This article may be of particular interest to public water systems that use surface water or ground water under the direct influence of surface water.

EPA's Long Term 2 Enhanced Surface Water Treatment Rule

(LT2ESWTR) was promulgated in the *Federal Register* Jan. 5, 2006. The following information is an excerpt from EPA's fact sheet on the rule. To see the entire fact sheet or for more information go to <http://www.epa.gov/safewater/disinfection/lt2/regulations.html#prepub>.

### Introduction

In the past 15 years, we have learned there are specific microbial pathogens, such as *Cryptosporidium*, which can cause illness, and are highly resistant to traditional disinfection practices. We also know that the disinfectants themselves can react with naturally occurring materials in the water to form byproducts, which may pose health risks.

### What is the LT2ESWTR?

The purpose of Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) is to reduce illness linked with the contaminant *Cryptosporidium* and other pathogenic microorganisms in drinking water. The LT2ESWTR will supplement existing regulations by targeting additional *Cryptosporidium* treatment requirements to higher risk systems. This rule also contains provisions to reduce risks from uncovered finished water reservoirs and provisions to ensure systems maintain microbial protection when they take steps to decrease the formation of disinfection byproducts that result from chemical water treatment.

### Who must comply with this rule?

This regulation will apply to all public water systems that use surface water or ground water under the direct influence of surface water.

### What does the rule require?

**Monitoring:** Under the LT2ESWTR, systems will monitor their water sources to determine treatment requirements. This monitoring includes an initial two years of monthly sampling for *Cryptosporidium*. To reduce monitoring costs, small filtered water systems will first monitor for *E. coli*—bacterium which is less expensive to analyze than *Cryptosporidium*—and will monitor for *Cryptosporidium* only if their *E. coli* results exceed specified concentration levels.

Monitoring start dates are staggered by system size, with smaller systems beginning monitoring after larger systems. Systems must conduct a second round of monitoring six years after completing the initial round to determine if source water conditions have changed significantly. Systems may use (grandfather) previously collected data in lieu of conducting new monitoring, and systems are not required to monitor if they provide the maximum level of treatment required under the rule.

***Cryptosporidium* treatment:** Filtered water systems will be classified in one of four treatment categories (bins) based on their monitoring results. Systems classified in higher treatment bins must provide 90 to 99.7 percent (1.0 to 2.5-log) additional treatment for *Cryptosporidium*. Systems will select from a wide range of treatment and management strategies in the "microbial toolbox" to meet their additional treatment requirements.

## New Smart Growth Tool for Communities to Assess Development Plans

*Reprinted from the "ASDWA Weekly Update," March 31, 2006*

EPA has released a new web-based smart growth tool to access state and local scorecards across the country in order to assess development plans and impacts on the environment (including water) and open space. This tool can be used at the individual project scale, at the municipality level, or to plan growth for a regional area. Some scorecards will help communities understand how the local regulatory climate impacts development patterns and help communities choose the best policies and strategies to ensure that growth and development benefits everyone.

For more information, visit EPA's smart growth web page at <http://www.epa.gov/smartgrowth>.

The direct link for the tool is available at <http://www.epa.gov/smartgrowth/scorecards/index.htm>. Questions about the tool can be directed to Matthew Dalbey of EPA at [dalbey.matthew@epa.gov](mailto:dalbey.matthew@epa.gov).

## Stage 2 Disinfectants and Disinfection Byproducts Rule

This article may be of particular interest to those public drinking water systems potentially regulated by the Stage 2 Disinfectants and Disinfection Byproducts Rule. Those systems are community and nontransient noncommunity water systems that produce and/or deliver water that is treated with a primary or residual disinfectant other than ultraviolet light.

EPA's Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 D/DBPR) was promulgated in the *Federal Register* Jan. 4, 2006. The following information is an excerpt from EPA's fact sheet on the rule. To see the entire fact sheet and additional information go to <http://www.epa.gov/safewater/disinfection/stage2/regulations.html#prepub>.

In the past 30 years, the Safe Drinking Water Act (SDWA) has been highly effective in protecting public health and has also evolved

to respond to new and emerging threats to safe drinking water. Disinfection of drinking water is one of the major public health advances in the 20th century. One hundred years ago, typhoid and cholera epidemics were common through American cities; disinfection was a major factor in reducing these epidemics.

However, the disinfectants themselves can react with naturally occurring materials in the water to form byproducts, which may pose health risks. In addition, in the past 10 years, we have learned that there are specific microbial pathogens, such as *Cryptosporidium*, which can cause illness, and are highly resistant to traditional disinfection practices.

### What is the Stage 2 DBPR?

This final rule strengthens public health protection for customers by tightening compliance monitoring requirements for two groups of DBPs, trihalomethanes (THM) and haloacetic acids (HAA5). The rule targets systems with the greatest risk and builds incrementally on existing rules. This regulation will reduce DBP exposure and related potential health risks and provide more equitable public health protection.

### What does the rule require?

Under the Stage 2 DBPR, systems will conduct an evaluation of their distribution systems, known as an Initial Distribution System Evaluation (IDSE), to identify the locations with high disinfection byproduct concentrations. These locations will then be used by the systems as the sampling sites for Stage 2 DBPR compliance monitoring.

Compliance with the maximum contaminant levels for two groups of disinfection byproducts (THM and HAA5) will be calculated for each monitoring location in the distribution system. This approach, referred to as the locational running annual average (LRAA), differs from current requirements, which determine compliance by calculating the running annual average of samples from all monitoring locations across the system.

The Stage 2 DBPR also requires each system to determine if they have exceeded an operational evaluation level, which is identified using their compliance monitoring results.

(Continued on page 7...)



Stage 2 – (Continued from page 6)

The operational evaluation level provides an early warning of possible future maximum contaminant level (MCL) violations, which allows the system to take proactive steps to remain in compliance. A system that exceeds an operational evaluation level is required to review their operational practices and submit a report to their state that identifies actions that may be taken to mitigate future high DBP levels, particularly those that may jeopardize their compliance with the DBP MCLs.

**Who must comply with the rule?**

Entities potentially regulated by the Stage 2 DBPR are community and nontransient noncommunity water systems that produce and/or deliver water that is treated with a primary or residual disinfectant other than ultraviolet light.

**What are disinfection byproducts (DBPs)?**

Disinfectants are an essential element of drinking water treatment because of the barrier they provide against waterborne disease-causing microorganisms. Disinfection byproducts (DBPs) form when disinfectants used to treat drinking water react with naturally occurring materials in the

Water (e.g., decomposing plant material).

**What are the compliance deadlines?**

Compliance deadlines are based on the sizes of the public water systems (PWSs). Wholesale and consecutive systems of any size must comply with the requirements of the Stage 2 DBPR on the same schedule as required for the largest system in the combined distribution system (defined as the interconnected distribution system consisting of wholesale systems and consecutive systems that receive finished water). Compliance activities are outlined in the following table.

PUBLIC WATER SYSTEMS	ACTIONS			
	Submit IDSE monitoring plan, system specific study plan, or 40/30 certification	Complete an initial distribution system evaluation (IDSE)	Submit IDSE Report	Begin subpart V (Stage 2) compliance monitoring
CWSs and NTNCWSs serving at least 100,000	October 1, 2006	September 30, 2008	January 1, 2009	April 1, 2012
CWSs and NTNCWSs serving 50,000 - 99,999	April 1, 2007	March 31, 2009	July 1, 2009	October 1, 2012
CWSs and NTNCWSs serving 10,000 - 49,999	October 1, 2007	September 30, 2009	January 1, 2010	October 1, 2013
CWSs serving fewer than 10,000	April 1, 2008	March 31, 2010	July 1, 2010	October 1, 2013
NTNCWSs serving fewer than 10,000	NA	NA	NA	October 1, 2013

\*States may grant up to an additional two years for systems making capital improvements.

## Missouri Clean Water Commission Adopts Rule Amendments for Cleaner Streams

At its Sept. 7, 2005 meeting, the Missouri Clean Water Commission adopted rule changes that will add bacterial standards to protect swimming uses for about 16,000 miles of Missouri streams and 300 lakes, in addition to those already protected. Those bacterial standards were previously required

on only 5,500 miles of Missouri streams. The changes add whole body contact recreation use designations to all classified water bodies not currently designated for whole body contact, except where it has been shown that no swimming uses occur and stream characteristics make any swimming highly unlikely. Based on those criteria, the rule changes remove whole body contact recreation use designations from fewer than 150 of more than 3,700 classified streams in Missouri.

To protect stream users, nearly 850 wastewater treatment plants

throughout Missouri that were not previously required to disinfect their discharges will be required either to add new bacterial controls or show that their discharges will not cause any violation of the bacteria standards on the stream receiving their discharge. The commission amended the compliance schedule in the proposed rule to require each permitted facility to achieve compliance with the rule within five years of the next renewal, significant modification, or first issuance of its operating permit, and no later than eight years after the effective date of the rule.

## Introducing...Water Specialist in NERO

We are happy to announce that Troy LaLond recently joined the Missouri Department of Natural Resources' Northeast Regional Office (NERO) in Macon as a Water Specialist. His main focus is to provide operator training and technical assistance. Troy brings with him more than 13 years of experience in water and wastewater applications. After graduating from Quincy College, he entered the wastewater field in industrial pretreatment

and moved on to municipal water and wastewater treatment. Operators and communities will reduce headaches and heartburn by learning from his experiences with a variety of projects ranging from main installation and inflow and infiltration studies, to design and finance of a new wastewater facility. Troy says he looks forward to providing technical assistance and training to facilities in the northeast region. If operators, city councils, boards, mayors, or communities would like or need information on training or are in need of some type of assistance, please do not hesitate to contact Troy at the Northeast Regional Office at (660) 385-8000.

### DEPARTMENT OF NATURAL RESOURCES OPERATOR CERTIFICATION AND TRAINING UNIT 2006 EXAMINATION SCHEDULE

Examination	Location	Application Deadline
August 1	Northeast Regional Office, Macon	July 2
August 1	Kansas City Regional Office, Lee's Summit	July 2
August 1	Conference Center, Jefferson City	July 2
September 5	Dept. Of Conservation, Powder Valley Nature Center, Kirkwood	August 6
September 5	Conference Center, Jefferson City	August 6
October 3	Southwest Regional Office, Springfield	September 3
October 3	Southeast Regional Office, Poplar Bluff	September 3
October 3	Conference Center, Jefferson City	September 3
November 14	Kansas City Regional Office, Lee's Summit	October 15
November 14	Northeast Regional Office, Macon	October 15
November 14	Conference Center, Jefferson City	October 15



# Employment Opportunities!

Qualified applicants for the following announcements must be on the active register for merit positions. Please see the "How To Apply" section below for more information.

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The Missouri Department of Natural Resources' **Southwest Regional Office**, in Springfield, is currently accepting applications for a Water Specialist III position. Qualified persons should have at least six years of experience in the operation and maintenance of a drinking water supply facility, of which two years included the operation and maintenance of treatment processes for sedimentation, chemical coagulation or softening, filtration and disinfection and included one year of experience in charge of the facility. (College education with specialization in engineering, chemistry, biological sciences or closely related areas may be substituted on a year-for-year basis for a maximum of two years of the required general experience.) Possession of a Class "A" water/wastewater operator certificate issued by the Missouri Department of Natural Resources. For more information please contact Clinton Finn, Southwest Regional Office, at (417) 891-4300 or by mail at 2040 W. Woodland, Springfield, MO 65807.

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The Missouri Department of Natural Resources' **Kansas City Regional Office** is currently accepting applications for a Water Specialist position. Qualified persons should have at least four years of experience in the operation and maintenance of a drinking water supply facility, of which one year must have included the operation and maintenance of treatment processes for sedimentation, chemical coagulation or softening, filtration and disinfection. (College education with specialization in engineering, chemistry, biological sciences or closely relate areas may be substituted on a year-for-year basis for a maximum of two years of the required general experience.) Possession of a Class "B" water/wastewater operator certificate issued by the Missouri Department of Natural Resources and the operational experience necessary for a Class "A" certificate. For more information, please contact Tracey Winter, Kansas City Regional Office at (816) 622-7020 or by mail at 500 NE Colbern Road, Lee's Summit, MO 64086.

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The Missouri Department of Natural Resources' **Southeast Regional Office** is currently accepting applications for a Water Specialist position. Qualified persons should have at least four years of experience in the operation and maintenance of a drinking water supply facility, of which one year must have included the operation and maintenance of treatment processes for sedimentation, chemical coagulation or softening, filtration and disinfection. (College education with specialization in engineering, chemistry, biological sciences or closely relate areas may be substituted on a year-for-year basis for a maximum of two years of the required general experience.) Possession of a Class "B" water/wastewater operator certificate issued by the Missouri Department of Natural Resources and the operational experience necessary for a Class "A" certificate. For more information, please contact Jack Baker, Southeast Regional Office at (573) 840-9750 or by mail at 2155 N. Westwood Blvd., Poplar Bluff, MO 63901.

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To view a full job announcement, visit <http://www.oa.mo.gov/pers/JOAs/joa9916.shtml>

HOW TO APPLY: To secure an Official Application Form, visit the Division of Personnel website <http://www.oa.mo.gov/pers/howtoapply.htm>, or contact the Division via telephone.

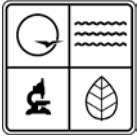
State of Missouri/Office of Administration/Division of Personnel  
301 W High Street, Truman Building (Suite 430) PO Box 388  
Jefferson City, MO 65102  
Telephone: (573) 751-4162  
Fax: (573) 751-8641  
<http://www.oa.mo.gov/pers>

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## **Training**

The mailed version of this publication included a two page list of approved training courses that was available at the time of printing. For a current listing of training, please visit:

<http://www.dnr.mo.gov/env/wpp/opcert/oprtrain.htm>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
Operator Certification Section  
P.O. Box 176  
Jefferson City, MO 65102-0176

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## Water & Wastewater Digest

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- ☐ Change of address? Complete sections 1 and 2.
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**1. Previous address:**

Name \_\_\_\_\_ Operator Certificate # \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_ - \_\_\_\_\_

**2. NEW address:**

Name \_\_\_\_\_ Operator Certificate # \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_ - \_\_\_\_\_

**Mail or FAX to:**

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Jefferson City, MO 65102-0176  
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